

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-62. (Canceled)

63. (Previously presented) A computer-readable medium having program code recorded thereon for depicting and analyzing a TNF- $\alpha$  converting enzyme (TACE) polypeptide comprising a catalytic domain, the program code comprising:

- (a) a first program code that stores and accesses structural data obtained from crystallographical analysis of said TACE polypeptide; and
- (b) a second program code that generates processed output by processing said data.

64. (Currently Amended) A computer-readable medium having program code recorded thereon for depicting and analyzing a ~~TNF- $\alpha$  converting enzyme (TACE)~~ TACE polypeptide comprising a catalytic domain, the program code comprising:

- (a) a first program code that stores and accesses structural data obtained from crystallographical analysis of said TACE polypeptide; and
- (b) a second program code that generates processed output by processing said data, wherein said structural data is the x-ray crystallographic coordinate data contained in Table 1.

65. (Previously presented) A computer-readable medium of claim 63 or 64, wherein the medium is selected from the group consisting of a floppy disc, a hard disc, computer tape, RAM, ROM, CD, DVD, a magnetic disk, and an optical disk.

66. (Currently Amended) A computerized system for depicting and analyzing a ~~TNF- $\alpha$  converting enzyme~~ TACE polypeptide comprising a catalytic domain, the computerized-system comprising:

- (a) a computer memory storing structural data obtained from crystallographical analysis of said TACE polypeptide from said polypeptide;
- (b) a computer processor coupled to said memory, said processor generating processed output on said data using a set of programmed instructions; and

(c) a computer display coupled to said processor, said display rendering multi-dimensional images of said polypeptide according to said processed output.

67. (Previously presented) A computerized system as set forth in claim 66, wherein said memory comprises:

(i) at least one first-type storage region, comprising a set of spatial coordinates of said polypeptide in a multi-dimensional space; and

(ii) at least one second-type storage region, comprising a representation of characteristics of a plurality of amino acids of said polypeptide,

wherein said second-type storage region is logically associated with said first-type storage region to support data processing in said processor.

68. (Currently Amended) A computerized system as set forth in claim 66, wherein said processor (i) accesses the structural data in said memory, **and** (ii) generates image signals for depicting a visual image of said polypeptide in a multi-dimensional space corresponding to a set of structural data points in said memory, and wherein said image signals are the processed output.

69. (Previously presented) A computerized system as set forth in claim 66, wherein said display (i) receives said processed output, and (ii) renders on a computer screen visual images of said polypeptide according to said processed output.

70. (Currently Amended) A **computerized** system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of a ribbon structure of said polypeptide in a multi-dimensional space.

71. (Currently Amended) A **computerized** system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of a solid model representation of said polypeptide in a multi-dimensional space.

72. (Currently Amended) A **computerized** system as set forth in claim 66, wherein said processed output includes signals for depicting a visual image of electrostatic surface potential of said polypeptide in a multi-dimensional space.

73. (Currently Amended) A **computerized** system as set forth in claim 66, wherein said processed output includes signals for depicting a visual stereo image of said polypeptide in a multi-dimensional space.

74. (Currently Amended) A **computerized** system as set forth in claim 66, further comprising:

(i) a storage device storing data of geometric arrangements of characteristics of a composition other than said polypeptide, wherein said device is coupled to said processor; and

(ii) an operator interface for receiving instructions from an operator, wherein said interface are coupled to said processor,

wherein said processor generates additional image signals for depicting a visual representation of said composition relative to the visual image of said polypeptide, according to said instructions from the operator interface, said additional image signals being the additional processed output.

75. (Currently Amended) A **computerized** system as set forth in claim 74, wherein said storage device is part of said memory.

76. (Currently Amended) A **computerized** system as set forth in claim 67, further comprising a plurality of said first-type and said second-type storage regions.